Microsoft Excel and it's Application in Civil Engineering

Date of Commencement	25th October, 2024 – 8th November, 2024
Course Duration	40 hours
Number of Participants	172
Conducted by	Department of Civil Engineering, RERFGI
Name and Affiliation of Instructor	Mr. Rahul Das Assistant Professor, Department of Civil Engineering, RERFGI

Overview of the Programme

The objective of this course is to enrich the students' skills and understanding in Structural Analysis, Surveying, Hydrology, Estimate, Design of RC Structures, Concrete and Open Channel flow problems utilizing Microsoft Excel. This course is structured to offer invaluable insights into Microsoft Excel, an essential tool in engineering and design. Spreadsheet can solve complex problems, create charts and graphs. Whether the students are beginners aiming to initiate their journey or are endeavoring to refine their existing skills, this course is meticulously crafted to cater to their requirements. The course details, participant details, evaluation report etc. are provided here.

Course Details

Course Outcomes

After completion of the course, the students will be able to:

CO1: Ability to draw Shear Force Diagram, Bending Moment Diagram and Deflected Shape using Microsoft Excel.

CO2: Ability to do Mix Design calculations using Microsoft Excel.

CO3: Ability to draw Hydrograph using Microsoft Excel.

CO4: Ability to draw the Specific Energy curve and indicate conjugate and alternate depth in plot.

CO5: Ability to solving leveling problems using Microsoft Excel

CO6: Ability to estimate full building plan using Microsoft Excel

CO7: Design of Reinforced Concrete Beam and Slab using Microsoft Excel

Lesson Plan:

Day No.	Date	Time	Topic Covered	COs Aimed
01	25.10.2024	11:00 am-1:00 pm	Manual Calculation of Shear Force Diagram, Bending Moment Diagram and Deflected Shape of a Simply supported beam subjected to uniformly distributed load and concentrated load.	CO1
		2:00 pm – 5:00 pm	Draw the Shear Force Diagram, Bending Moment Diagram and Deflected Shape of a Simply supported beam subjected to uniformly distributed load and concentrated load. in Microsoft Excel.	
02	26.10.2024	11:00 am-1:00 pm	Mix Design of M25 Grade of concrete using codal provisions	CO2
		2:00 pm – 5:00 pm	Calculation of Mix proportions of constituents mix in Microsoft Excel.	
03	29.10.2024	11:00 am-1:00 pm	Plot the n-hr Unit Hydrograph using Microsoft Excel	CO3
		2:00 pm – 5:00 pm	Plot the S-curve of n-hr Unit Hydrograph using Microsoft Excel	
04	30.10.2024	11:00 am-1:00 pm	Draw Specific Energy curve for rectangular and Triangular Open Channel Flow and determine the conjugate and alternate depth from the plot.	CO4
		2:00 pm – 5:00 pm		
05	05.11.2024	11:00 am-1:00 pm	Determine the Reduce Level points by Rise and Fall Method in Microsoft Excel	CO5
		2:00 pm – 5:00 pm	Determine the Reduce Level points by Height of collimation Method in Microsoft Excel	

Day No.	Date	Time	Topic Covered	COs Aimed
06	06.11.2024	11:00 am-1:00 pm	Estimation of Single Room Building in Microsoft Excel	CO6
		2:00 pm – 5:00 pm	Estimation of G+2 Residential Building in Microsoft Excel	
07	08.11.2024	11:00 am-1:00 pm	Design of Singly Reinforced Beam in Microsoft Excel	CO7
		2:00 pm – 5:00 pm	Design of One-way Slab in Microsoft Excel	

Flyer:


7 days Student Training Programme on
Microsoft Excel and it's Applications in Civil Engineering.
Organized by
Department of Civil Engineering,
REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS
Resource Person
Mr. Rahul Das
Assistant Professor
M. Tech in Structural Engineering,
NIT ROURKELA, (Gold Medalist)
Date of commencement:
25th October, 2024
Time- 11.00 a.m- 1.00 pm &
2.00 pm- 5.00 pm
Platform- Offline
Venue- Computer Lab
Course Coordinator:
Subhadeep Mondal
Mobile Number : 7076775280
Email-subhadeepm@regent.ac.in
Scan QR code for Registration
(or)
Registration Link
https://gforms.app/NGIrTNe
Last Date of Registration; 23 rd October, 2024 at 03.00 PM
E-Certificate will provide by Email

Ref: RERFGI/CE/2024-25/01 Date: 20/09/2024

NOTICE

We are excited to announce a **FREE** learning course on Microsoft Excel, organized by RERFGI. This is a fantastic opportunity for all aspiring engineers of RERFGI of **Civil Engineering Department** to enhance their skills and knowledge in solving Civil Engineering problems **using Microsoft Excel**.

Course Commencement Date: October 25th, 2024.

This course is designed to provide you with valuable insights into Microsoft Excel, a fundamental tool in engineering and design. Whether you are a beginner looking to get started or seeking to improve your existing skills, this course is tailored to meet your needs. Don't miss this opportunity to gain valuable engineering skills that can significantly boost your career prospects in the field of Civil Engineering. Take the first step towards becoming a proficient Microsoft Excel user.

To register for this course, please fill out the Google Form provided at the following link: https://forms.gle/AAwdNkYhpikYEHuS9. We encourage all interested candidates to register as soon as possible, as seats are limited. For any further queries or additional information, please contact Civil Engineering department of RERFGI. We look forward to your active participation in this course.

Best regards,

Shouvik Sarkar, HOD, CE Dept.

Contact person:

Course Coordinator: Subhadeep Mondal

Mobile Number: 7076775280

Email Id: subhadeepm@regent.ac.in

Course Instructor Details

Qualification:

- B. Tech in Civil Engineering, VIT UNIVERSITY, Vellore (Gold Medalist)
- M. Tech in Structural Engineering, NIT ROURKELA, (Gold Medalist)

Work Experience:

- He has experience as an Engineer in AFCONS Infrastructure Ltd in East West Metro Project under River Hooghly.
- He is a Research Scholar in IIT Delhi, Applied Mechanics Department.
- He has hands on experience in STAAD PRO, ABAQUS, SAP, PRIMAVERA., etc.
- He has more than two years teaching experience and have served many administrative roles

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Event Name: Microsoft Excel and it's Application in Civil Engineering

Academic Session: 2024-2025(Odd Semester)

Course Commencement Date: 25th October, 2024

Organizing Department/ Committee: Civil Engineering Department

Sl.No	Student Name	Roll No.	Year	Day 1 (25.10 .24)	Day 2 (26.10 .24)	Day 3 (29.10 .24)	Day 4 (30.10 .24)	Day 5 (05.11 .24)	Day 6 (06.11 .24)	Day 7 (08.11 .24)
1	BADSHA SK	26301323004	2nd	P	.	.	P	P	P	P
2	SOURAV MONDAL	26301322001	3rd	.	P	P	P	P	.	P
3	SOUMYODIP MANNA	26301322002	3rd	P	P	P	.	P	.	P
4	BISWANATH MALAKAR	26301322003	3rd	P	P	.	P	.	P	P
5	ARUP SARKAR	26301322005	3rd	.	P	P	.	P	P	P
6	ABHIJIT KUNDU	26301323008	3rd	P	P	P	.	P	.	P
7	ABHIJIT MUKHERJEE	26301323009	3rd	P	.	.	P	P	P	P
8	AJOY DAS	26301323011	3rd	P	P	P	P	.	P	.
9	ARPITA MAITY	26301323024	3rd	.	P	P	P	.	P	P
10	AUTRI DAS	26301323025	3rd	P	.	.	P	P	P	P
11	AVIK GHOSH	26301323026	3rd	P	P	P	.	.	P	P
12	BABAI MONDAL	26301323028	3rd	.	P	.	P	P	P	P
13	JASIM MALLICK	26301322006	3rd	P	P	P	.	P	.	P
14	MANDEEP SAHA	26301322008	3rd	P	P	P	P	.	.	P
15	JIT SINGH	26301322012	3rd	P	P	.	P	P	.	P
16	SOURYADIP DE	26301322014	3rd	.	P	P	.	P	P	P
17	SANGITA DAS	26301323064	3rd	.	P	P	P	P	.	P
18	SANJIT SARKHEL	26301323066	3rd	P	.	P	P	P		.
19	SAPTARSHI KUNDU	26301323067	3rd	P	P	P	P	P	.	P
20	SAYAN JASH	26301323069	3rd	P	.	P	P	.	P	.
21	SAYAN DEBNATH	26301323071	3rd	P	P	P	.	P	P	.

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22	AMIT GHANTI	26301323012	3rd	P	P	.	.	P	P	P
23	ANISH BANERJEE	26301323014	3rd	.	.	P	P	.	P	P
24	ANISH GHOSH	26301323015	3rd	P	P	P	P	P	.	.
25	ANKHI BISWAS	26301323016	3rd	P	P	.	P	P	.	P
26	ANKITA SHEEL	26301323017	3rd	P	P	P	.	.	P	.
27	ANUP BARAI	26301323018	3rd	.	P	.	P	P	P	P
28	ANUPAM BASAK	26301323019	3rd	P	P	P	P	.	.	.
29	ARITRA KUMAR MONDAL	26301323021	3rd	P	P	.	P	P	.	P
30	ARKAJYOTI BASU	26301323022	3rd	.	.	P	P	P	P	P
31	ARNAB SARKAR	26301323023	3rd	P	P	P	P	P	.	.
32	JOYDEEP DEY	26301323040	3rd	.	P	P	.	.	P	P
33	KARTICK PAUL	26301323041	3rd	P	P	.	P	P	P	.
34	KOUSHIK BHOWMIK	26301323043	3rd	P	P	P	P	.	P	P
35	MD HASIB ALI	26301323047	3rd	.	.	P	P	P	P	P
36	MUGDHA CHAKI	26301323049	3rd	P	.	P	P	P	.	.
37	NABAMITA DAS	26301323050	3rd	P	P	P	P	P	.	P
38	NABARUP MAJUMDER	26301323051	3rd	P	P	.	P	.	P	.
39	NIKITA DAS	26301323054	3rd	P	.	P	P	.	P	.
40	PRATIK BISWAS	26301323055	3rd	.	P	.	P	P	P	.
41	BHASKAR GON	26301323029	3rd	P	.	P	P	P	P	.
42	CHAYAN MUKHERJEE	26301323030	3rd	P	P	P	P	P	.	P
43	DEBJIT DEBDAS	26301323032	3rd	P	P	P	.	.	P	.
44	DEEP SOM	26301323033	3rd	.	P	.	P	P	P	.
45	DIPANJANA DAS	26301323034	3rd	P	P	.	P	P	P	.
46	DIPTESH PAL	26301323035	3rd	.	.	P	P	P	P	.
47	FREDERICK ABHISHEK KUJUR	26301323036	3rd	P	P	P	P	P	.	P
48	TONMOY NASKAR	26301323097	3rd	P	P	P	P	.	.	P
49	SUBHANKAR ROY	26301323085	3rd	.	P	.	P	P	P	.
50	SOUMIK MUKHOPADHYAY	26301323078	3rd	P	P	P	.	P	.	P
51	SAYAN MONDAL	26301321040	4th	P	.	.	P	.	P	.

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52	ALIP MONDAL	26301322020	4th	P	P	P	P	.	P	.
53	PUSHKAR SAHA	26301322021	4th	.	.	P	.	P	P	.
54	SUMAN NANDI	26301322024	4th	.	P	P	P	.	P	.
55	NARAYAN KHANRA	26301322025	4th	P	P	.	P	P	.	P
56	ABUL KALAM	26301322026	4th	P	.	P	P	.	P	.
57	SAMAPRIYA KARMAKAR	26301322027	4th	.	P	.	P	P	P	P
58	BIDHAN CHANDRA MAHATO	26301322030	4th	P	P	.	P	P	.	P
59	ARPITA BAIRAGI	26301322032	4th	P	P	P	.	.	P	.
60	MANDIRA PAL	26301322034	4th	P	.	.	P	P	P	.
61	PULAK ROY	26301322035	4th	.	.	P	.	.	P	P
62	BISWAJIT MAITY	26301322036	4th	P	P	P	P	.	.	.
63	KALYAN GHATAK	26301322037	4th	.	P	.	P	P	P	P
64	SURAJIT MANDAL	26301322038	4th	.	P	.	P	.	.	.
65	SADAF ANJUM	26301322039	4th	P	P	P	.	.	P	.
66	THAKURDAS MUDI	26301322040	4th	.	P	P	P	P	.	P
67	SOMA BHATTACHARYA	26301322041	4th	P	.	P	P	P	.	P
68	SASWATA DAS	26301322042	4th	.	P	.	P	.	.	.
69	PRIYANKA BHATTACHARJEE	26301322043	4th	P	P	P	P	P	.	P
70	NABONITA PAUL	26301322044	4th	P	P	.	P	.	P	P
71	TANDRA BHUIYA	26301322045	4th	P	P	.	.	P	.	P
72	DEBANGSHU DEY	26301322046	4th	.	P	P	P	P	.	.
73	MOHINIMOHON DAS	26301322047	4th	P	.	P	P	P	.	P
74	ARIJIT HALDAR	26301322049	4th	.	P	.	P	P	P	P
75	SUVOJIT ACHARJEE	26301322050	4th	P	P	P	P	P	.	.
76	NURUL HASAN MONDAL	26301322051	4th	.	P	P	.	P	P	P
77	DEBORSHI DEY	26301322052	4th	P	P	.	.	.	P	.
78	MADHUMITA ACHAR	26301322053	4th	P	P	P	.	.	P	P

79	PRITILEKHA SARKAR	26301322054	4th	P	P	P	.	P	.	P
80	SANCHITA KUMARI	26301322055	4th	.	P	P	.	P	P	P
81	ANKUR MONDAL	26301322056	4th	P	P	.	P	.	P	.
82	BISHAL DAS	26301322057	4th	.	P	.	P	.	P	.
83	SIKHA MISHRA	26301322058	4th	P	.	P	.	P	.	.
84	TULIP CHAKRABORTY	26301322059	4th	P	P	P	P	P	.	P
85	SOUGATA MANDAL	26301322060	4th	.	P	.	P	P	P	P
86	AYUSH AHAMED	26301322061	4th	P	P	.	P	.	P	.
87	GOURANG SINGH	26301322062	4th	P	P	.	P	P	P	.
88	PRATIK KUMAR CHOUDHARY	26301322063	4th	P	.	P	P	P	.	P
89	PROSENJIT GHOSH	26301322064	4th	.	P	P	.	P	P	P
90	SAYANTI NANDI	26301322065	4th	P	P	P	P	.	P	.
91	SUCHANA PAL	26301322066	4th	.	.	P	P	.	P	.
92	AYANAVA SINGHA	26301322067	4th	P	.	.	P	P	P	P
93	JAYDEEP CHAKRABORTY	26301322068	4th	P	P	P	P	.	.	P
94	JOYDIP MONDAL	26301322069	4th	.	P	.	P	.	P	P
95	RAKESH TAPADER	26301322070	4th	P	.	P	.	P	P	P
96	SAPTARSHI HAZRA	26301322126	4th	P	P	.	.	P	.	P
87	AMIT KUMAR MAITRA	26301322127	4th	.	P	P	P	P	.	P
88	SAGORIKA MAJUMDER	26301322129	4th	P	P	P	P	.	P	.
89	SAGAR SAHA	26301322130	4th	P	P	.	P	.	P	P
90	SUBHAJIT GHOSH	26301322131	4th	.	P	P	P	P	P	.
91	RITAM PAUL	26301322132	4th	P	.	P	.	P	P	P
92	SUMIT KUNDU	26301322133	4th	.	P	P	P	.	P	P
93	SOUVIK PRAMANIK	26301322134	4th	P	P	.	.	P	P	P
94	SARBARTHA MUKHERJEE	26301322135	4th	P	.	P	P	P	P	.
95	HRIT DUTTA	26301322136	4th	P	P	.	P	P	P	.

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96	MADHUMITA DINDA	26301322137	4th	P	P	P	.	P	.	P
97	KISAN ACHARYA	26301321001	4th	P	P	.	P	.	P	.
98	BONY RAHAMAN	26301321002	4th	.	P	P	P	.	P	.
99	KALI SANKAR GANGULY	26301321003	4th	P	P	.	P	P	P	.
100	ARITRA PAL	26301321004	4th	.	P	P	P	.	P	P
101	SAYAN PAUL	26301321005	4th	P	P	P	P	.	.	P

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REGENT EDUCATION & RESEARCH FOUNDATION
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Course Name: **Microsoft Excel and it's Application in Civil Engineering**

Academic Session: **2024-2025 (Odd Semester)**

Course Commencement Date: **25th October, 2024**

Enrollment List

S.No	Student Name	Roll No.	Year	Signature
1	BADSHA SK	26301323004	2nd	Badsha SK.
2	SOURAV MONDAL	26301322001	3rd	S. Mondal.
3	SOUMYODIP MANNA	26301322002	3rd	Soumyodip Manna
4	BISWANATH MALAKAR	26301322003	3rd	B. Malakar
5	ARUP SARKAR	26301322005	3rd	Arup Sarkar.
6	ABHIJIT KUNDU	26301323008	3rd	A. Sarkar.
7	ABHIJIT MUKHERJEE	26301323009	3rd	Abhijit Mukherjee
8	AJOY DAS	26301323011	3rd	Ajoy Das
9	ARPITA MAITY	26301323024	3rd	Arpita Maity
10	AUTRI DAS	26301323025	3rd	~~Arpita~~ Autri Das
11	AVIK GHOSH	26301323026	3rd	Avik Ghosh
12	BABAI MONDAL	26301323028	3rd	Babai Mondal
13	JASIM MALLICK	26301322006	3rd	Jasim Mallick
14	MANDEEP SAHA	26301322008	3rd	Mandeep Saha
15	JIT SINGH	26301322012	3rd	Jit Singh

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S.No	Student Name	Roll No.	Year	Signature
16	SOURYADIP DE	26301322014	3rd	Souryadip De.
17	SANGITA DAS	26301323064	3rd	Sangita Das.
18	SANJIT SARKHEL	26301323066	3rd	Sanjit Sarkhel
19	SAPTARSHI KUNDU	26301323067	3rd	Saptarshi Kundu
20	SAYAN JASH	26301323069	3rd	Sayan Jash
21	SAYAN DEBNATH	26301323071	3rd	Sayan Debnath
22	AMIT GHANTI	26301323012	3rd	Amit Ghanti
23	ANISH BANERJEE	26301323014	3rd	Anish Banerjee
24	ANISH GHOSH	26301323015	3rd	Anish Ghosh
25	ANKHI BISWAS	26301323016	3rd	Ankhi Biswas
26	ANKITA SHEEL	26301323017	3rd	Ankita Sheel.
27	ANUP BARAI	26301323018	3rd	Anup Barai
28	ANUPAM BASAK	26301323019	3rd	Anupam Basak
29	ARITRA KUMAR MONDAL	26301323021	3rd	Aritra Kumar Mondal.
30	ARKAJYOTI BASU	26301323022	3rd	Arkajyoti Basu
31	ARNAB SARKAR	26301323023	3rd	Arnab Sarkar
32	JOYDEEP DEY	26301323040	3rd	Joydeep Dey.
33	KARTICK PAUL	26301323041	3rd	Kartick Paul.
34	KOUSHIK BHOWMIK	26301323043	3rd	K. Bhowmik.
35	MD HASIB ALI	26301323047	3rd	Md Hasib Ali
36	MUGDHA CHAKI	26301323049	3rd	Mugdha Chaki
37	NABAMITA DAS	26301323050	3rd	Nabamita Das.
38	NABARUP MAJUMDER	26301323051	3rd	Nabarup Majumder.
39	NIKITA DAS	26301323054	3rd	Nikita Das

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S.No	Student Name	Roll No.	Year	Signature
40	PRATIK BISWAS	26301323055	3rd	Pratik Biswas.
41	BHASKAR GON	26301323029	3rd	Bhaskar Gon
42	CHAYAN MUKHERJEE	26301323030	3rd	Chayan Mukherjee
43	DEBJIT DEBDAS	26301323032	3rd	Debjit Debdas
44	DEEP SOM	26301323033	3rd	Deep Som
45	DIPANJANA DAS	26301323034	3rd	Dipanjana Das.
46	DIPTESH PAL	26301323035	3rd	Diptesh Pal
47	FREDERICK ABHISHEK KUJUR	26301323036	3rd	Frederick Abhishek Kujur
48	TONMOY NASKAR	26301323097	3rd	Tonmoy Naskar
49	SUBHANKAR ROY	26301323085	3rd	Subhankar Roy
50	SOUMIK MUKHOPADHYAY	26301323078	3rd	Soumik Mukhopadhyay
51	SAYAN MONDAL	26301321040	4th	Sayan Mandal.
52	ALIP MONDAL	26301322020	4th	Alip Mondal
53	PUSHKAR SAHA	26301322021	4th	Pushkar Saha
54	SUMAN NANDI	26301322024	4th	Suman Nandi
55	NARAYAN KHANRA	26301322025	4th	Narayan Khanra
56	ABUL KALAM	26301322026	4th	Abul Kalam
57	SAMAPRIYA KARMAKAR	26301322027	4th	Samapriya Karmakar.
58	BIDHAN CHANDRA MAHATO	26301322030	4th	B. Karmakar.
59	ARPITA BAIRAGI	26301322032	4th	Arpita Bairagi
60	MANDIRA PAL	26301322034	4th	Mandira Pal
61	PULAK ROY	26301322035	4th	Pulak Roy
62	BISWAJIT MAITY	26301322036	4th	Biswajit Maity
63	KALYAN GHATAK	26301322037	4th	Kalyan Ghatak

Campus : **Regent Education & Research Foundation Group of Institutions**
E-mail : rerfkolkata@gmail.com, Website : www.rerf.in

Campus Address:
Bara Kanthalia, Barrackpore
P.O: Sewli Telinipara, P.S.: Mohanpur
Kolkata - 700 121
Tel.: 033-3008-5442/432/431. Fax: 033-3008-5442

Regd. Office Address:
11/3, Biresh Guha Street
7th Floor, Kolkata - 700 017
Tel.: 033-3221-3013

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S.No	Student Name	Roll No.	Year	Signature
64	SURAJIT MANDAL	26301322038	4th	Surajit Mondel.
65	SADAF ANJUM	26301322039	4th	Sadaf Anjum
66	THAKURDAS MUDI	26301322040	4th	Thakurdas Mudi
67	SOMA BHATTACHARYA	26301322041	4th	Soma Bhattacharya
68	SASWATA DAS	26301322042	4th	Saswata Das.
69	PRIYANKA BHATTACHARJEE	26301322043	4th	Priyanka Bhattacharjee.
70	NABONITA PAUL	26301322044	4th	Nabonita Paul
71	TANDRA BHUIYA	26301322045	4th	Tandra Bhuiya
72	DEBANGSHU DEY	26301322046	4th	Debangshu Dey
73	MOHINIMOHON DAS	26301322047	4th	Debangshu Dey
74	ARIJIT HALDAR	26301322049	4th	Arijit Haldar
75	SUVOJIT ACHARJEE	26301322050	4th	Suvojit Acharjee
76	NURUL HASAN MONDAL	26301322051	4th	Nurulhasan Mondal.
77	DEBORSHI DEY	26301322052	4th	Deborshi Dey.
78	MADHUMITA ACHAR	26301322053	4th	Madhumita Achar
79	PRITILEKHA SARKAR	26301322054	4th	Pritilekha Sarkar
80	SANCHITA KUMARI	26301322055	4th	Sanchita Kumari
81	ANKUR MONDAL	26301322056	4th	Ankur Mondal
82	BISHAL DAS	26301322057	4th	Bishal Das.
83	SIKHA MISHRA	26301322058	4th	Sikha Mishra
84	TULIP CHAKRABORTY	26301322059	4th	T. Chakraborty.
85	SOUGATA MANDAL	26301322060	4th	Sougata Mandal
86	AYUSH AHAMED	26301322061	4th	Ayush Ahamed
87	GOURANG SINGH	26301322062	4th	Gourang Singh.

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S.No	Student Name	Roll No.	Year	Signature
88	PRATIK KUMAR CHOUDHARY	26301322063	4th	Pratik kumar choudhary
89	PROSENJIT GHOSH	26301322064	4th	Prosenjit Ghosh
90	SAYANTI NANDI	26301322065	4th	Sayanti Nandi
91	SUCHANA PAL	26301322066	4th	Suchana pal.
92	AYANAVA SINGHA	26301322067	4th	Ayanava Singha
93	JAYDEEP CHAKRABORTY	26301322068	4th	Jaydeep Chakraborty
94	JOYDIP MONDAL	26301322069	4th	Joydip Mondal
95	RAKESH TAPADER	26301322070	4th	Rakesh Tapadar
96	SAPTARSHI HAZRA	26301322126	4th	Saptarshi Hazra
87	AMIT KUMAR MAITRA	26301322127	4th	Amit Kumar Mitra
88	SAGORIKA MAJUMDER	26301322129	4th	Sagorika Majumder
89	SAGAR SAHA	26301322130	4th	Sagar Saha
90	SUBHAJIT GHOSH	26301322131	4th	Subhajit Ghosh
91	RITAM PAUL	26301322132	4th	Ritam Paul
92	SUMIT KUNDU	26301322133	4th	Sumit kundu
93	SOUVIK PRAMANIK	26301322134	4th	Souvik Pramanik
94	SARBARTHA MUKHERJEE	26301322135	4th	Sarbartha Mukherjee
95	HRIT DUTTA	26301322136	4th	Hrit Dutta
96	MADHUMITA DINDA	26301322137	4th	Madhumita Dinda
97	KISAN ACHARYA	26301321001	4th	Kisan Acharya
98	BONY RAHAMAN	26301321002	4th	Bony Rahaman
99	KALI SANKAR GANGULY	26301321003	4th	Kali Sankar Ganguly
100	ARITRA PAL	26301321004	4th	Aritra Pal
101	SAYAN PAUL	26301321005	4th	Sayan Paul

Campus : **Regent Education & Research Foundation Group of Institutions**
E-mail : rerfkolkata@gmail.com, Website : www.rerf.in

Campus Address:
Bara Kanthalia, Barrackpore
P.O: Sewli Telinipara, P.S.: Mohanpur
Kolkata - 700 121
Tel.: 033-3008-5442/432/431. Fax: 033-3008-5442

Regd. Office Address:
11/3, Biresh Guha Street
7th Floor, Kolkata - 700 017
Tel.: 033-3221-3013

HOD CIVIL

Class Photographs:

Day 1: 25.10.2024



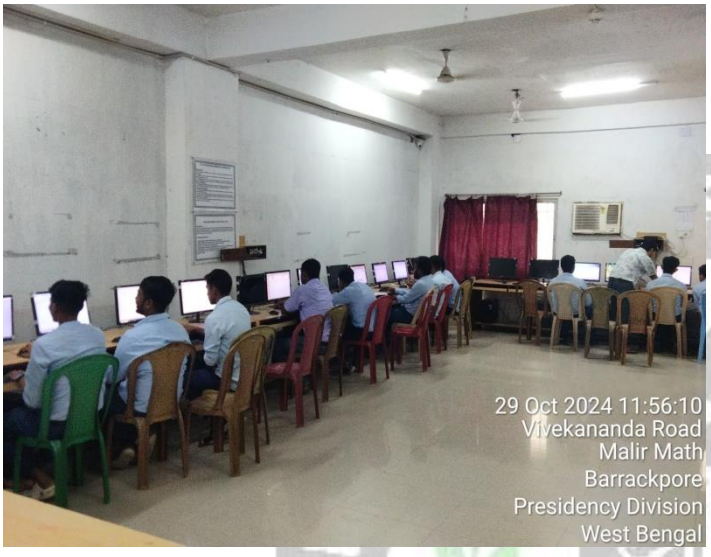


Day 2: 26.10.2024





Day 3: 29.10.2024





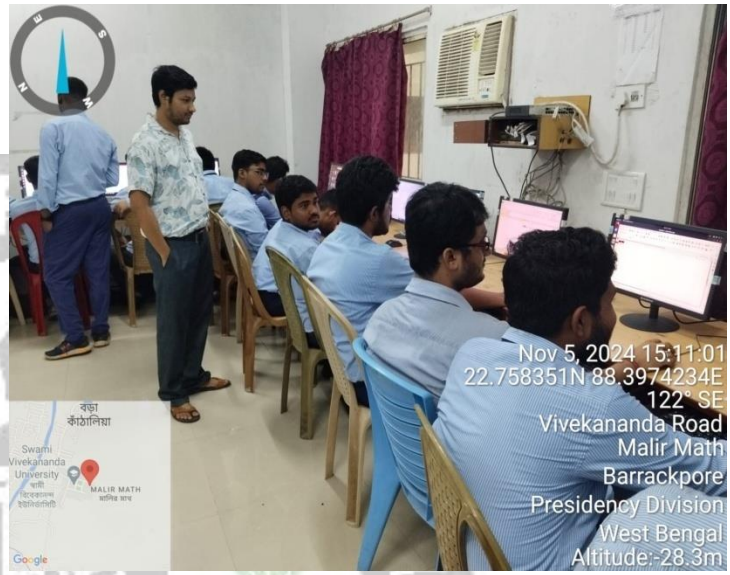
Day 4: 30.10.2024





Day 5: 05.11.2024





Day 6: 06.11.2024





Day 7: 08.11.2024





Assignment 1:

<table>
<tr><th>Q.No</th><th>Question</th><th>Marks</th><th>CO Aimed</th></tr>
<tr><td>1.</td><td>Perform a Mix Design of M50 grade concrete mix in Microsoft Excel as per IS 10262-2009 and IS 456-2000. Calculate the mix proportions of Cement, Fly ash, Sand , 10 mm and 20 mm aggregate , water and admixture for a 5 kg batch of concrete in Microsoft Excel
<table>
<tr><td>Grade</td><td>M50</td></tr>
<tr><td>Type of Cement</td><td>OPC 43 Grade</td></tr>
<tr><td>Type of CA 20 mm</td><td>Crushed angular type</td></tr>
<tr><td>Type of FA</td><td>Natural Sand</td></tr>
<tr><td>Type of mineral Admix</td><td>Fly Ash</td></tr>
<tr><td>NMS</td><td>20 mm</td></tr>
<tr><td>Exposure cond.</td><td>Severe</td></tr>
<tr><td>Workability</td><td>50-100 mm slump</td></tr>
<tr><td>Chemical Admix</td><td>Sika Visocrete 2002 HE (superplasticizer)</td></tr>
</table>
Test data for Materials:
<table>
<tr><th>S.No</th><th>Material</th><th>Specification/Source</th><th>Specific Gravity</th></tr>
<tr><td>1</td><td>Cement</td><td>OPC 43</td><td>3.15</td></tr>
<tr><td>2</td><td>Fly ash</td><td>Pulverized/ Mejja TPP</td><td>2.01</td></tr>
<tr><td>3</td><td>Microsilica</td><td>Elkem</td><td>2.2</td></tr>
<tr><td>4</td><td>Admix.</td><td>Sika Viscocrete 2002 HE</td><td>1.08</td></tr>
<tr><td>5</td><td>CA 20 mm</td><td>Rampurhat</td><td>2.88</td></tr>
<tr><td>6</td><td>CA 10 mm</td><td>Rampurhat</td><td>2.76</td></tr>
<tr><td>7</td><td>Fine aggregate</td><td>Ajoy River</td><td>2.61</td></tr>
<tr><td>8</td><td>Water</td><td></td><td>1.0</td></tr>
</table></td><td>20</td><td>CO2</td></tr>
</table>

Q.No	Question	Marks	CO Aimed
2	Construct the momentum diagrams, specific energy curve for the given Open channel flow using Microsoft Excel. There is a rectangular channel where discharge is 25 m^3/s, width of the channel is 2.2 m. Determine the following a. Critical depth b. Flow type c. If hydraulic jump happened what will be the conjugate depth (both graphically and numerically) d. Head loss due to hydraulic jump Plot the momentum diagram, specific energy curve. Indicate the conjugate depth and alternate depth in the plot.	**20**	**CO4**

Assignment 2:

Q.No	Question	Marks	CO Aimed
1	A simply supported concrete beam of an office building constructed in the vicinity of Defence with span length of L=10 m carries point load at the centre of 50kN. Determine the magnitude of support reactions provided with hinge and roller support respectively. Construct the Bending Moment, Shear Force and Deflection Diagram using Microsoft Excel.	**10**	**CO1**

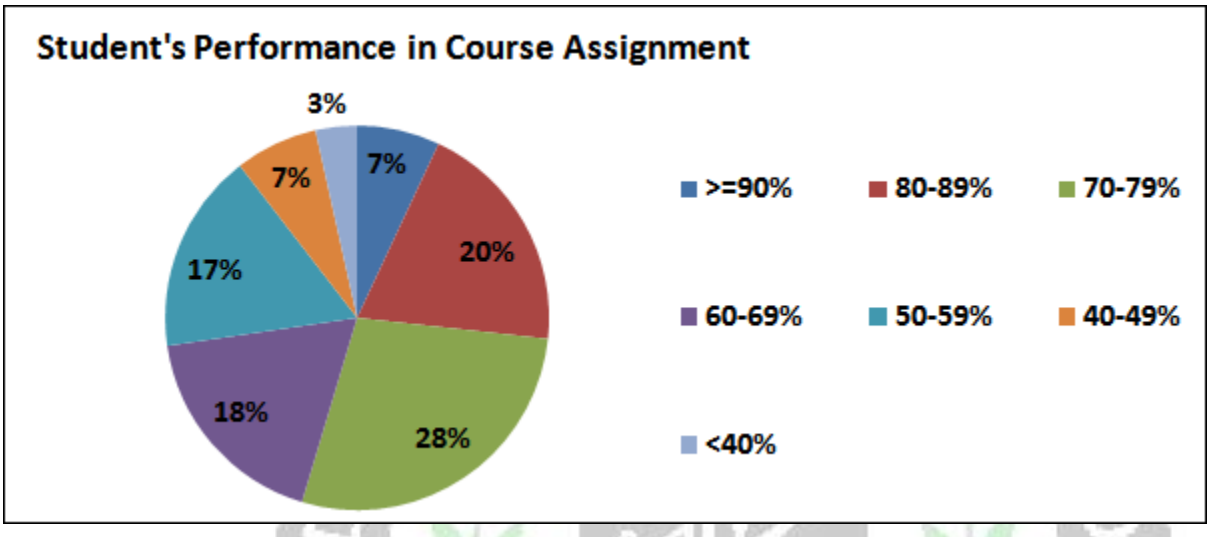
Q.No	Question	Marks	CO Aimed
2	Replace the load with uniformly distributed load of 4 kN/m. Determine the magnitude of support reactions provided with hinge and roller support respectively. Construct the Bending Moment, Shear Force and Deflection Diagram using Microsoft Excel.	10	**CO1**
3	Now, apply dead load in addition to the above concentrated load. Determine the magnitude of support reactions provided with hinge and roller support respectively. Construct the Bending Moment, Shear Force and Deflection Diagram using Microsoft Excel. Take: Unit weight of concrete= 25 kN/m, M40 grade of concrete and size of beam: 500 mm x 800 mm	20	**CO1**

Course End Assessment:

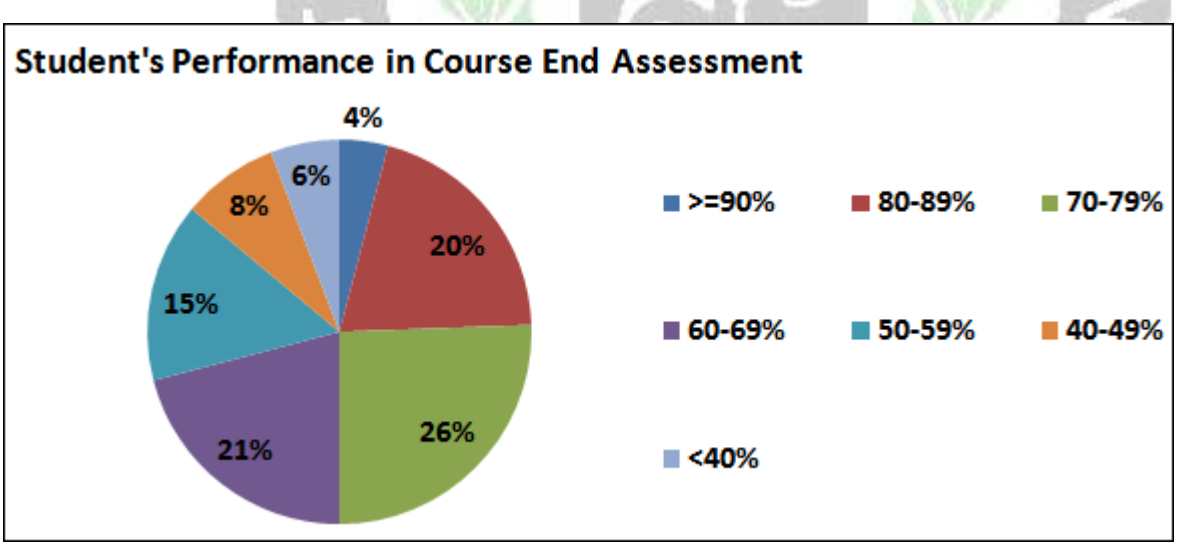
Q.No	Question	Marks	CO Aimed
1.	The following consecutive readings were taken with a level on continuously sloping ground at a common interval of 20 m. The last station has an elevation of 155.272 m. Rule out a page of level book and enter the readings. Calculate (i) the reduced levels of the points by rise and fall method, and (ii) the gradient of the line joining the first and last points. 0.420, 1.115, 2.265, 2.900, 3.615, 0.535, 1.470, 2.815, 3.505, 4.445, 0.605, 1.925, 2.885 Solve in Microsoft Excel	10	**CO5**
2.	A simply supported steel beam of an office building with span length of L=20 m carries point load at the centre of 20kN and 60 kN at a distance of 5 m and 10 m from the left support. The beam is subjected to 25 kN/m throughout the beam. Determine the magnitude of support reactions provided with hinge and roller support respectively. Construct the Bending Moment, Shear Force and Deflection Diagram using Microsoft Excel.	15	**CO1**
3.	Design a simply supported R.C.C slab for a roof hall 4m x 10 m (inside dimensions) with 230 mm walls all around. Assume a live load of 4 kN/m^2 and surface finish 1 kN/m^2. Use Grade M25 concrete and Fe 415 Steel.	25	**CO7**

Assessment Results

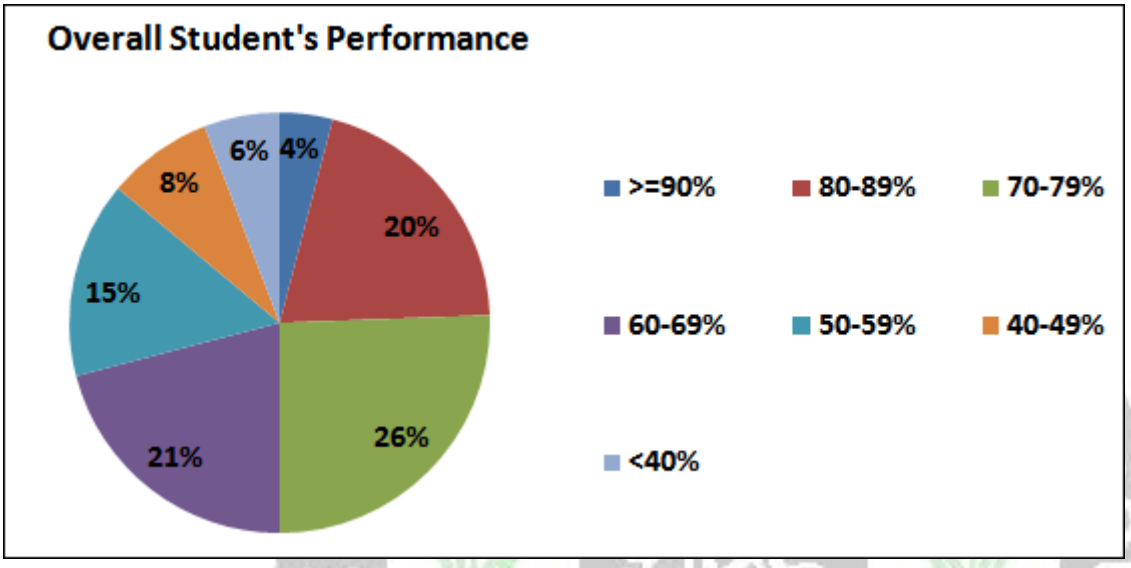
Course Assignment:



Course End Assessment:

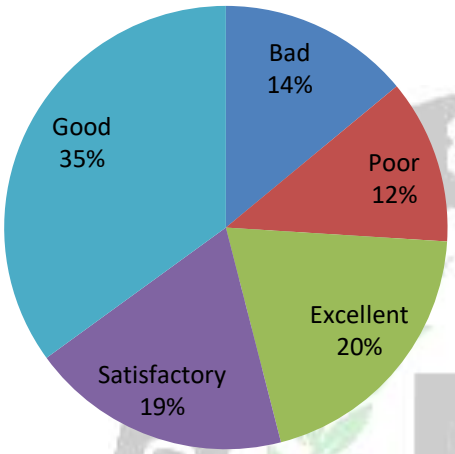


Overall Result of Student Performance:



Course Exit Survey

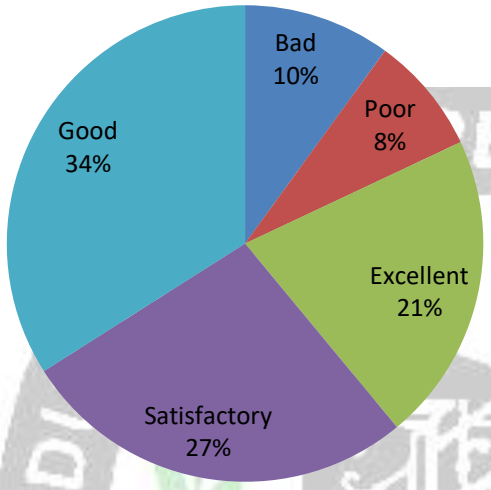
1. How was the course content relevant to the current industrial/academic need?



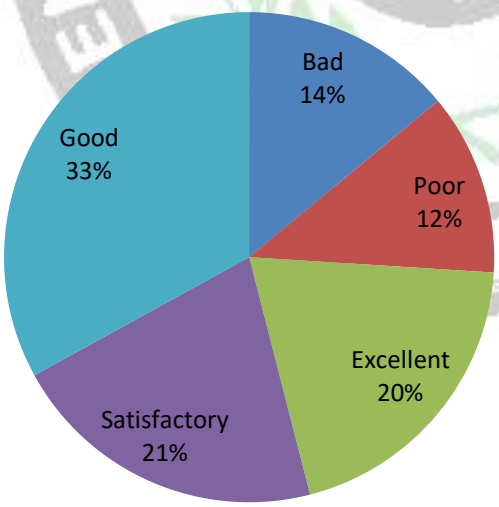
2. Overall Ranking of the Course Instructor.



3. How confident are you to draw SFD, BMD, and Deflected Shape in Microsoft Excel?



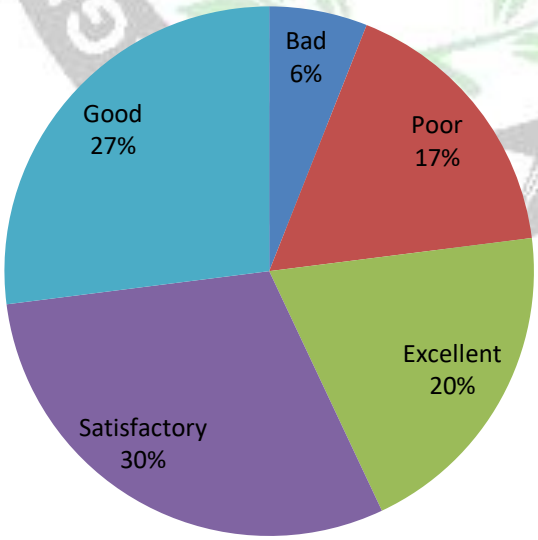
4. How confident are you to do calculation of Mix proportions of constituents mix in Microsoft Excel?



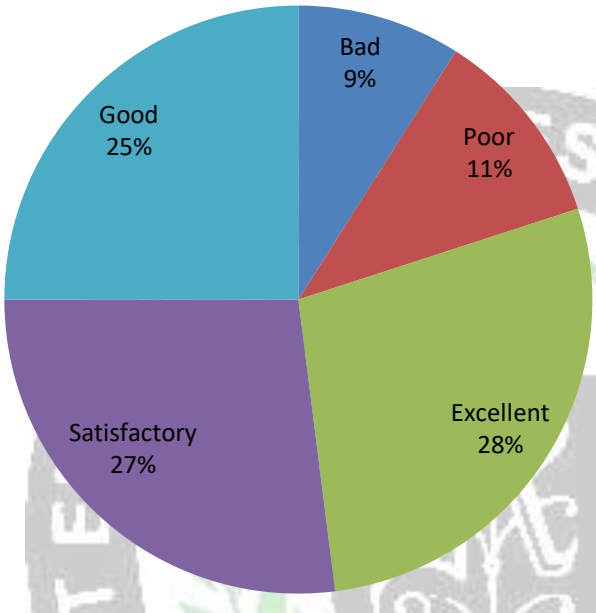
5. How confident are you to do generate 2D and 3D plots in Microsoft Excel?



6. Are you satisfied with the Laboratory Infrastructure?



7. Could you relate your theoretical knowledge with Microsoft Excel?



Certificate:



CERTIFICATE OF PARTICIPATION

7 DAYS COURSE

On

Microsoft Excel and it's Applications in Civil Engineering

Organized By

Department of Civil Engineering of Regent Education & Research Foundation Group of Institutions
Barrackpore, Kol-700121

This is to certify that

Arnab Sarkar

Participated in the course entitled " Microsoft Excel and it's Applications in Civil Engineering " held on 25th October 2024 to 8 th Nov 2024

SUBHADEEP MONDAL
COURSE COORDINATOR, CE DEPT, RERFGI

MR. SHOUVIK SARKAR
HOD, DEPT. OF CE, RERFGI

CERTIFICATE OF PARTICIPATION

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Barrackpore, Kol-700121

This is to certify that

Narayan Khanra

Participated in the course entitled " Microsoft Excel and it's Applications in Civil Engineering " held on 25th October 2024 to 8 th Nov 2024

SUBHADEEP MONDAL
COURSE COORDINATOR, CE DEPT, RERFGI

MR. SHOUVIK SARKAR
HOD, DEPT. OF CE, RERFGI